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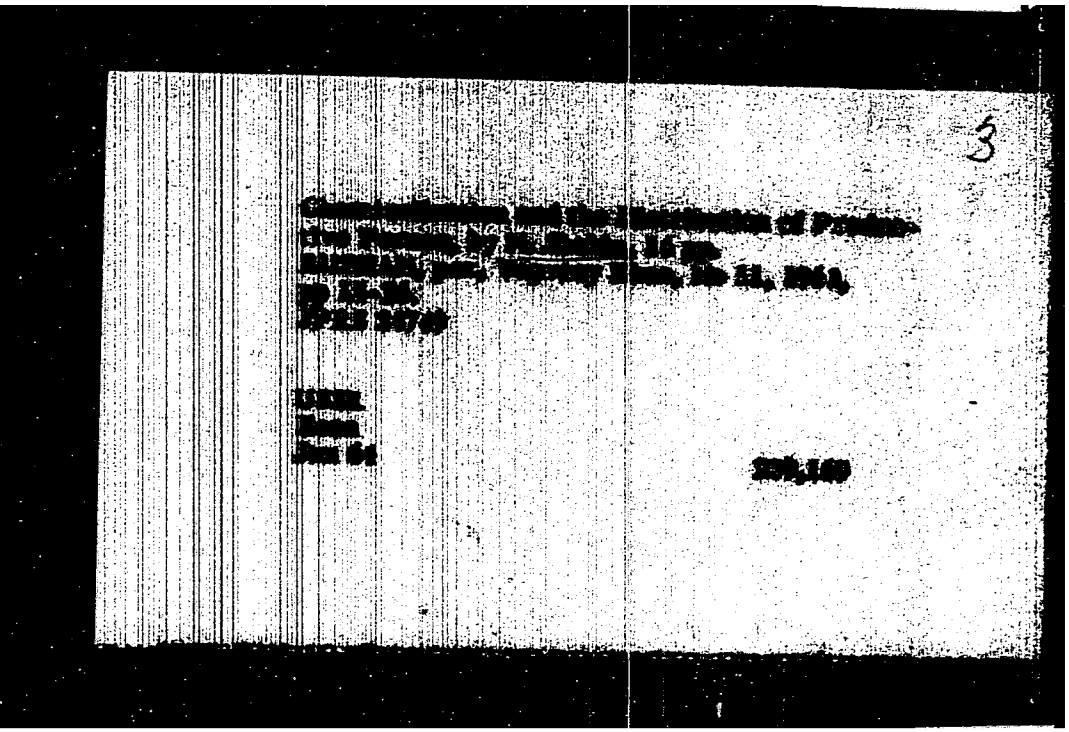

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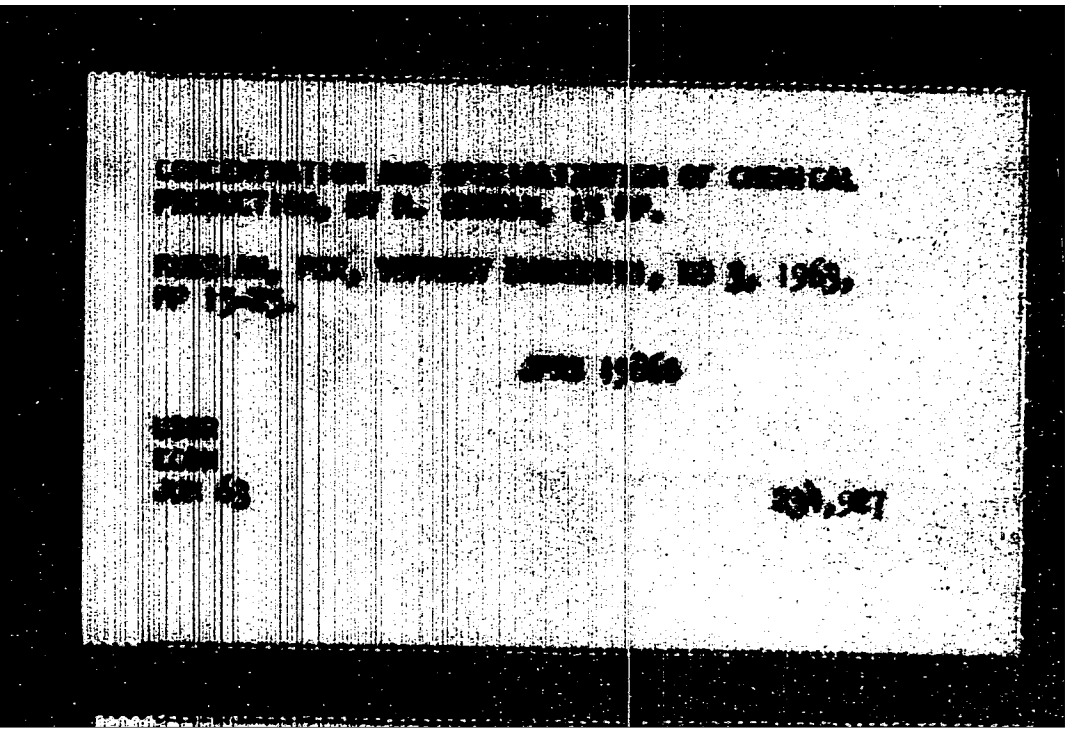

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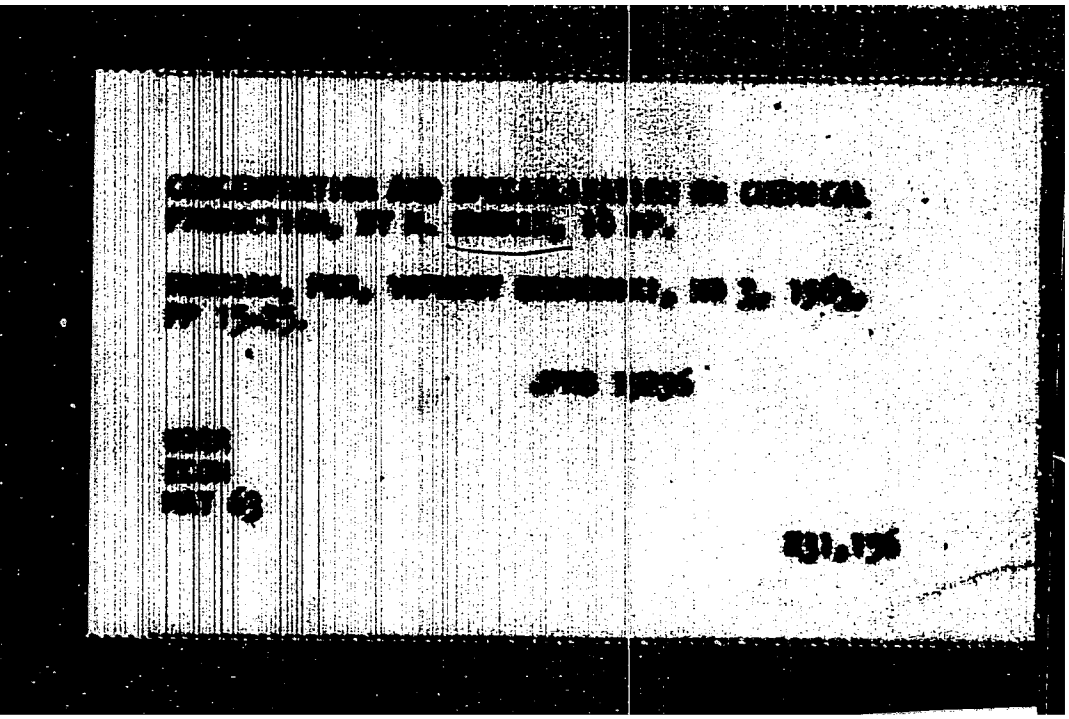

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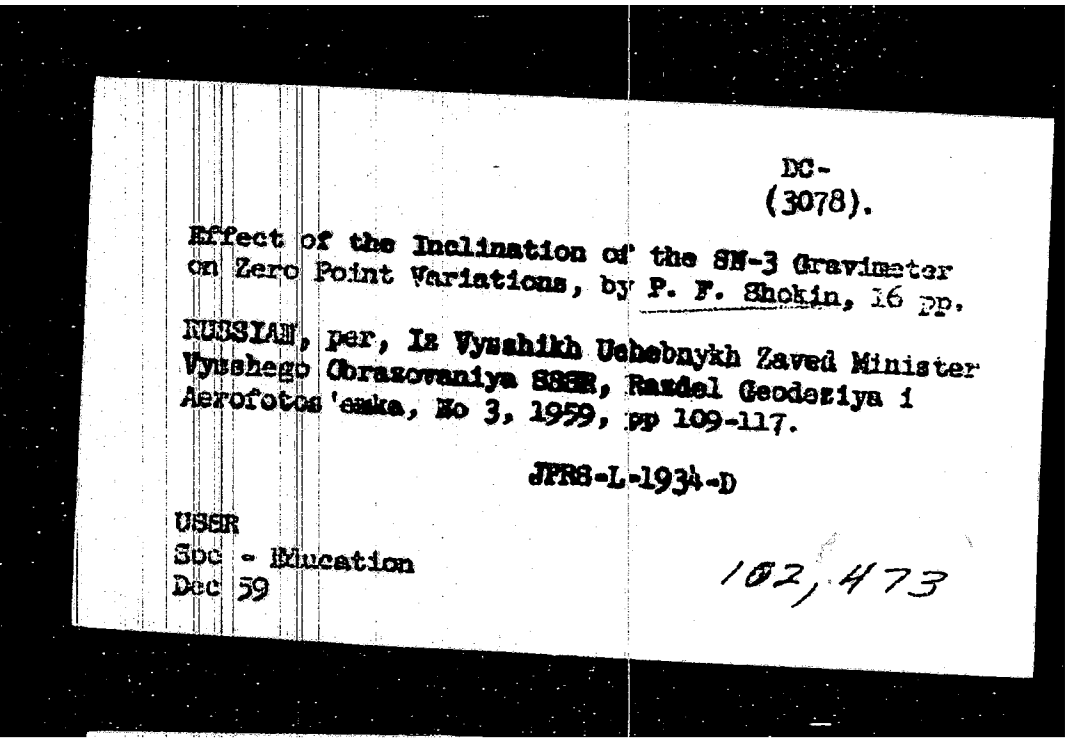

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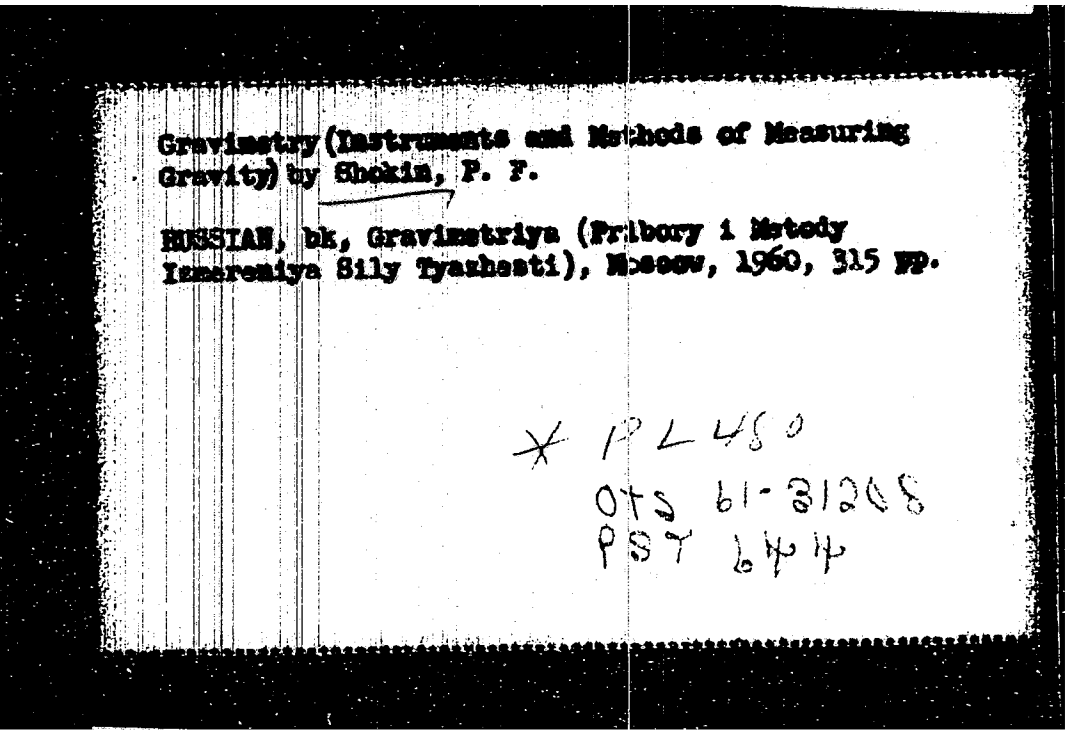

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A partial trans. (table of contents) is available from OTS or ETC $1.40 as 62-26035, MTWL-1084, 5p.

DESCRIPTORS: *Gravity, Measurement, *Gravimeters, Geodesics.

Contents:
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Determination of the gravitational force by static methods
Measurement of the second derivatives of the gravitational potential.

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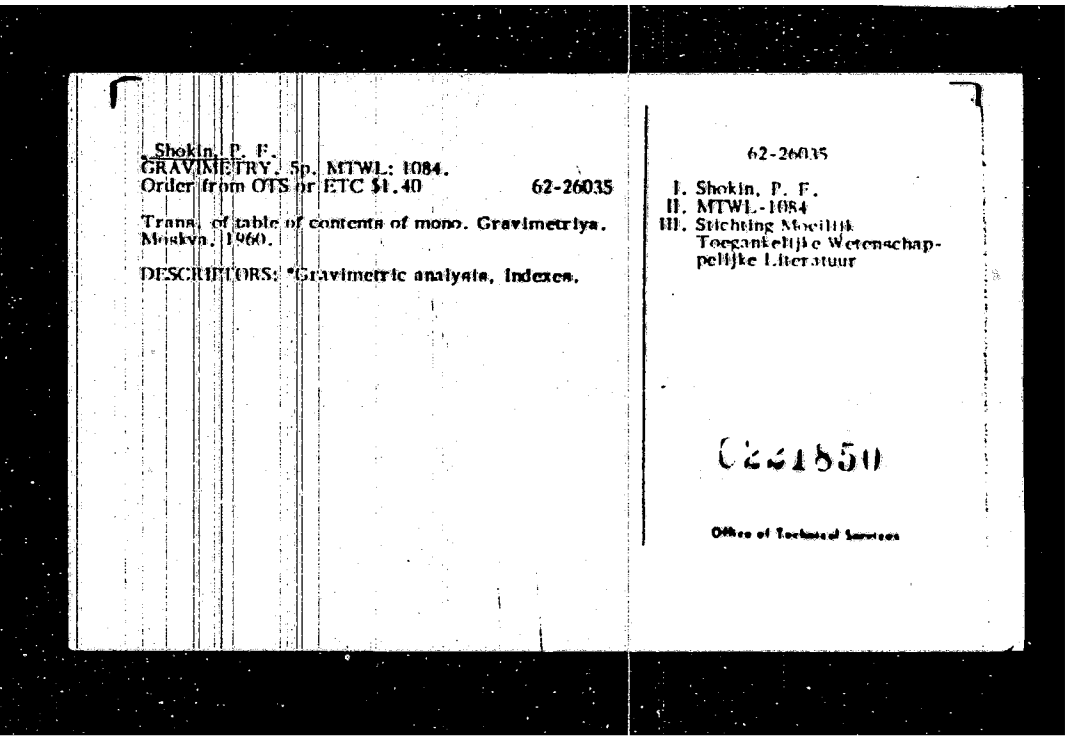

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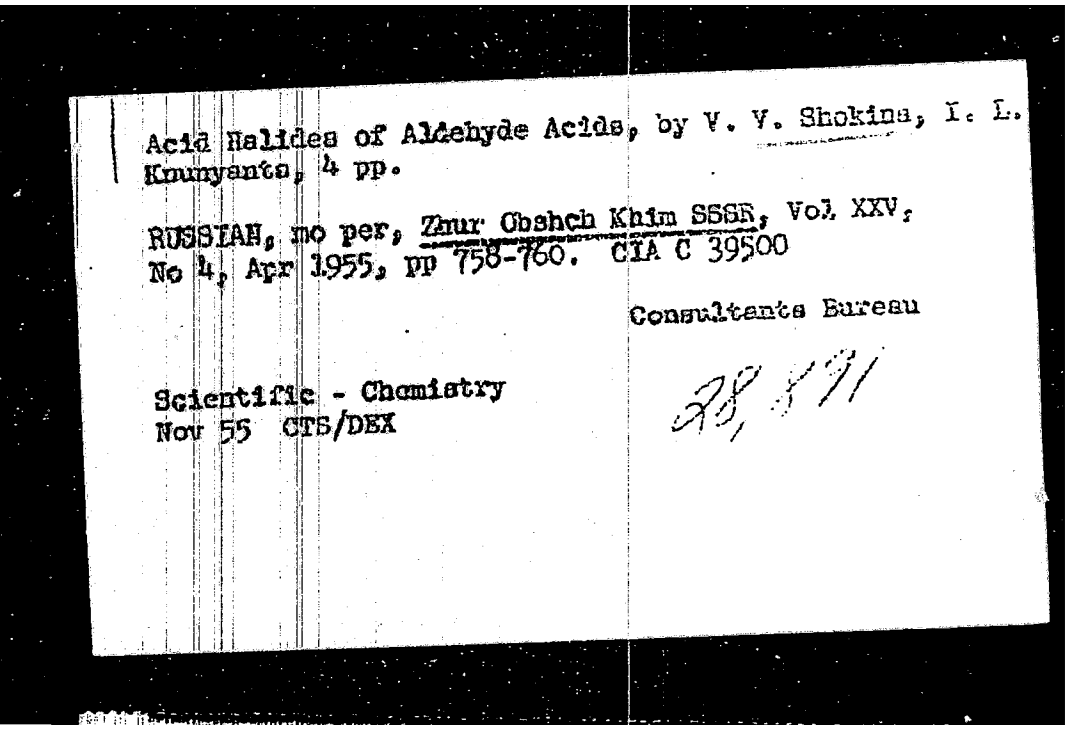

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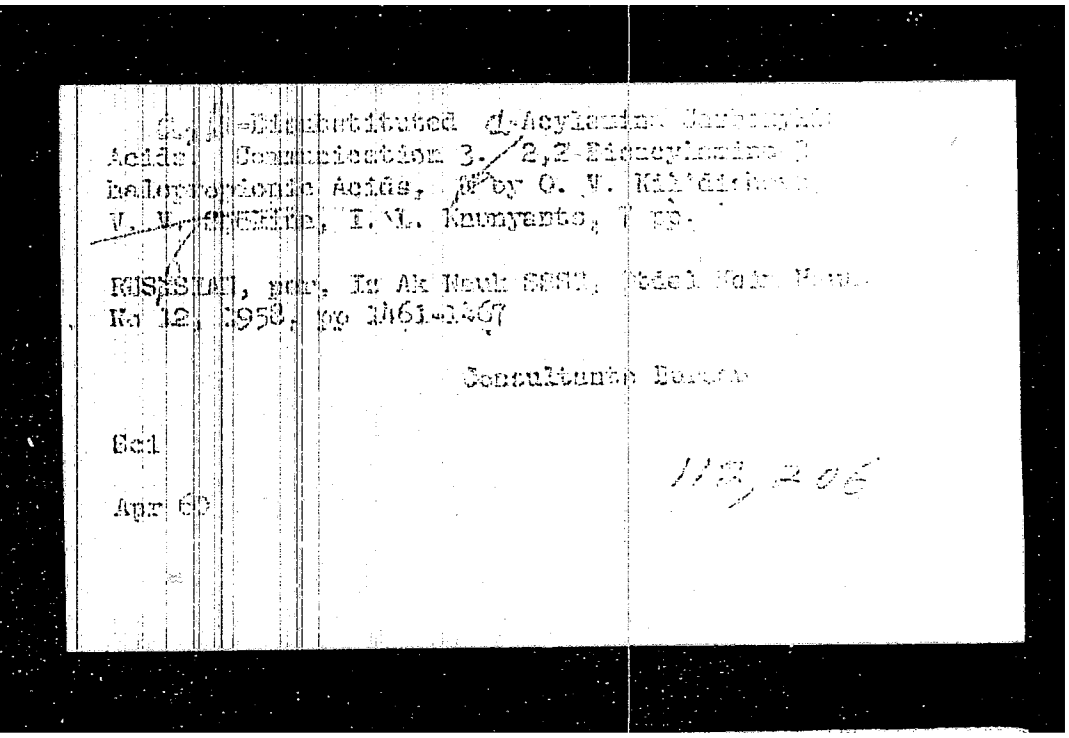

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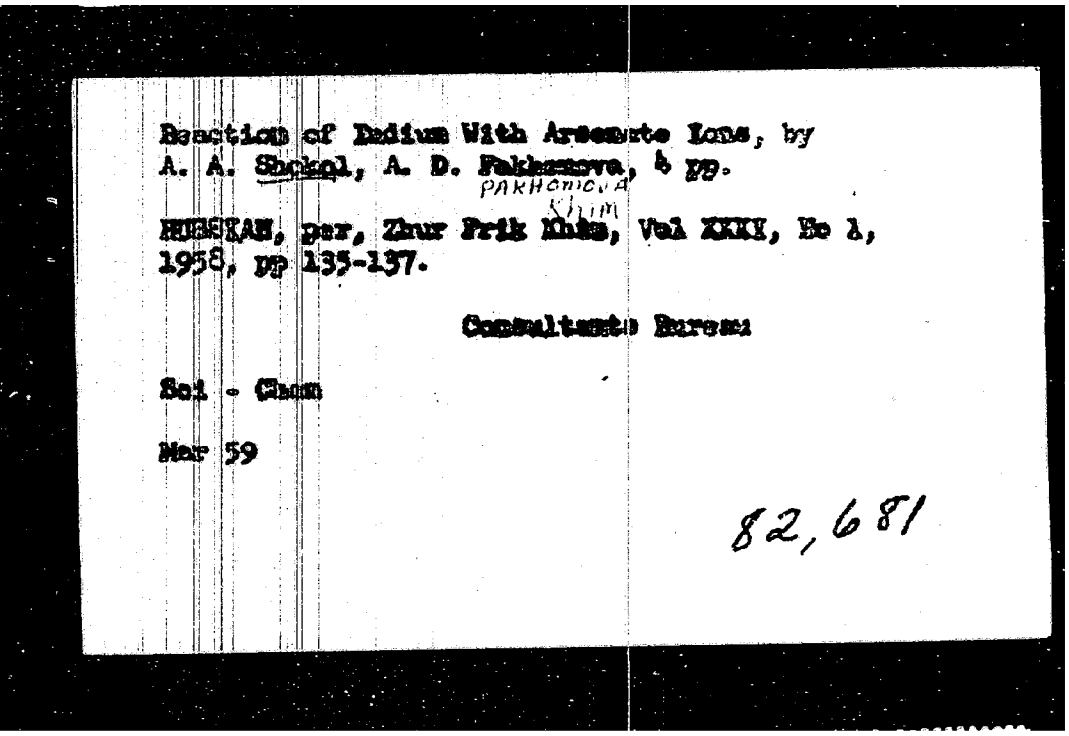

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Aryl Esters of N-Diaryloxyphosphinyliminothiocarboxylic Acids of the Aromatic Series, by A. V. Kirsanov, V. A. Shokol, 11 pp.

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Scientific - Geophysics 23,493

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CATALYTIC REARRANGEMENTS OF CYCLONONANE AND CYCLODECANE IN THE PRESENCE OF A NICKEL CATALYST. [1963] [10]p. 10 refs.
Order from OTS or SLA $1.10 63-18752

Trans. of Neftekhimiya (USSR) 1962, v. 2, p. 280-287.

DESCRIPTORS: *Methanes, *Octanes, *Cyclohexanes, *Methyl radicals, *Cyclopentanes, *Heptanes, *Nickel catalysts, Raman spectroscopy, Kieselguhr, Benzenes, Catalysis.

Catalytic conversions of cyclononane and cyclodecane were studied in the presence of nickel upon kieselguhr and in a stream of hydrogen at 200 and 250 C. The substances undergo under these conditions a transannular dehydrocyclization, a direct hydrogenolysis and a stepwise isomerization of their cycles. The reaction products of cyclononane were n-nonane, n-octane,
(Chemistry--Organic, TT, v. 10, no. 12) (over)

63-18752

1. Title: Cyclodecane
2. Title: Cyclononane
I. Shokova, E. A.
II. Khromov, S. I.

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Recent Experience of the No. 4 Hydraulic Mine Orkhonkidzeugol Trust, by Z. O. Shokrin.

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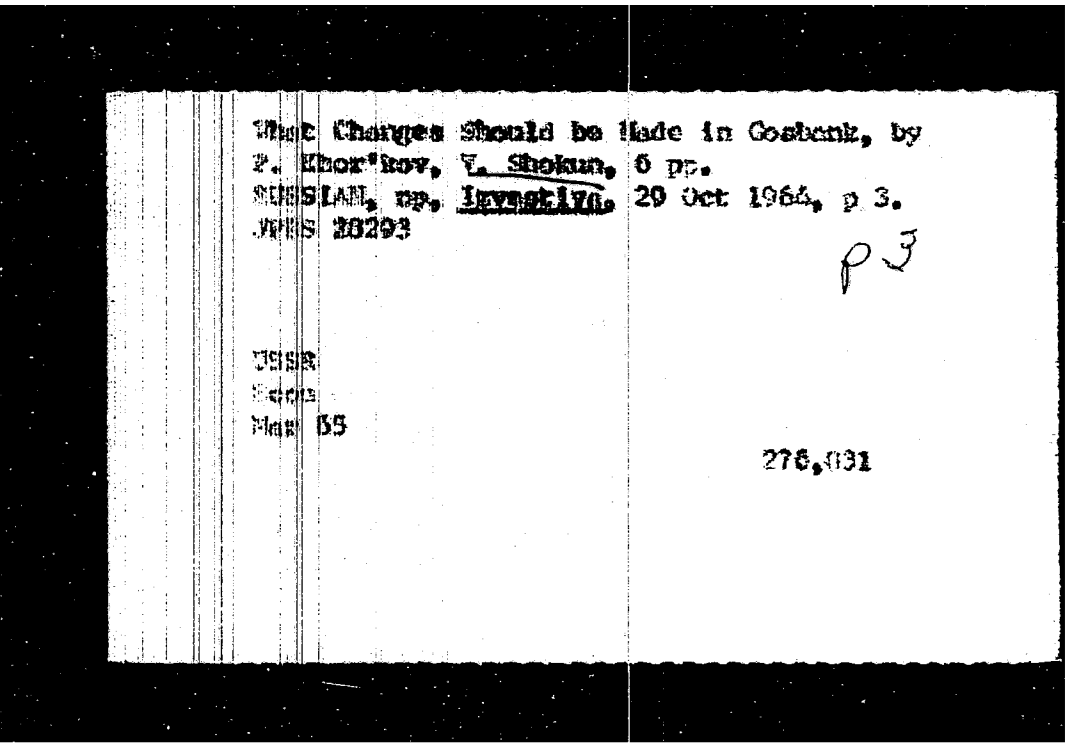

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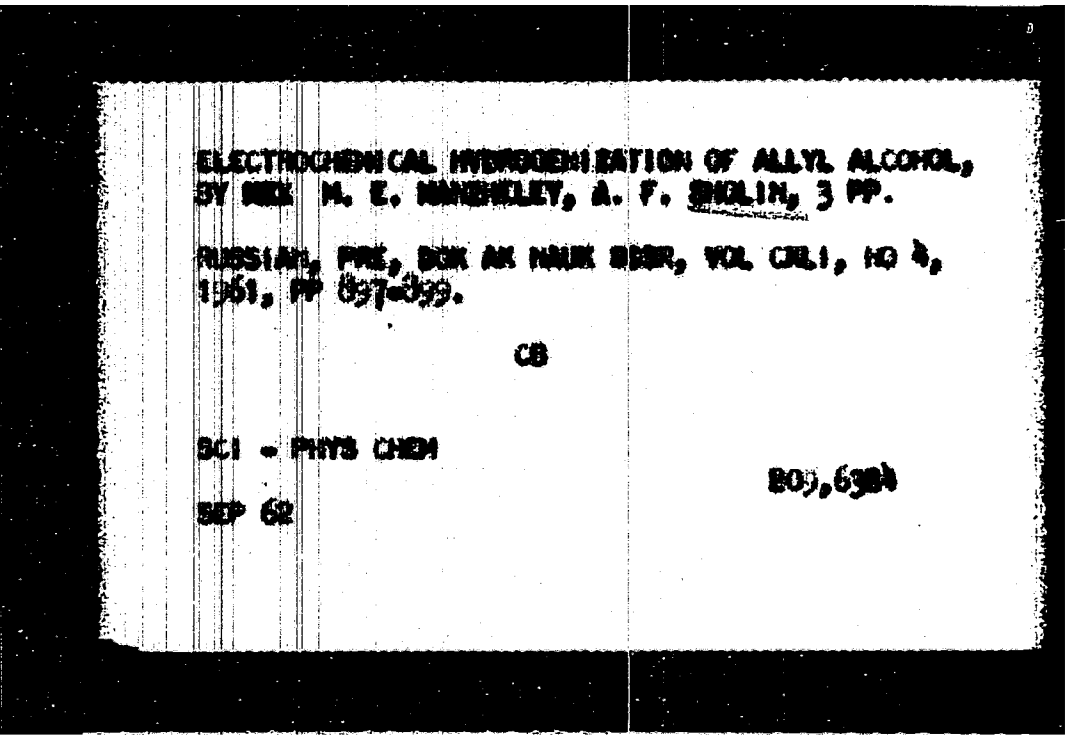

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BY [redacted] M. E. MANDELBAUM, A. F. SHOLIN, 3 PP.

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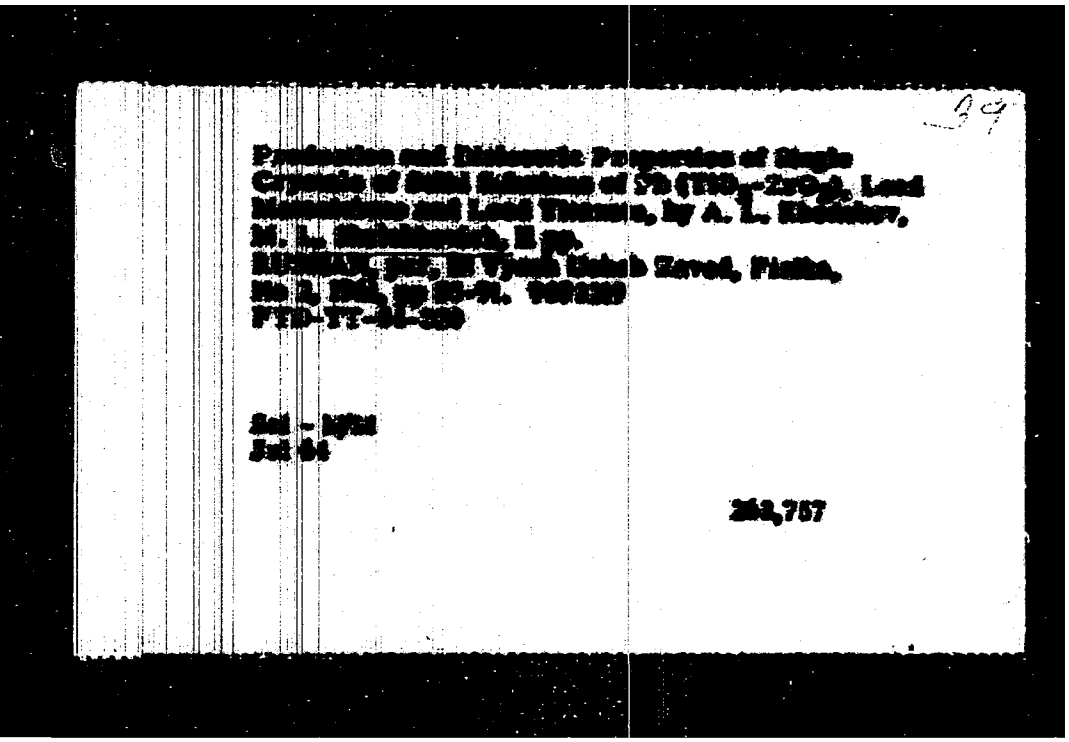

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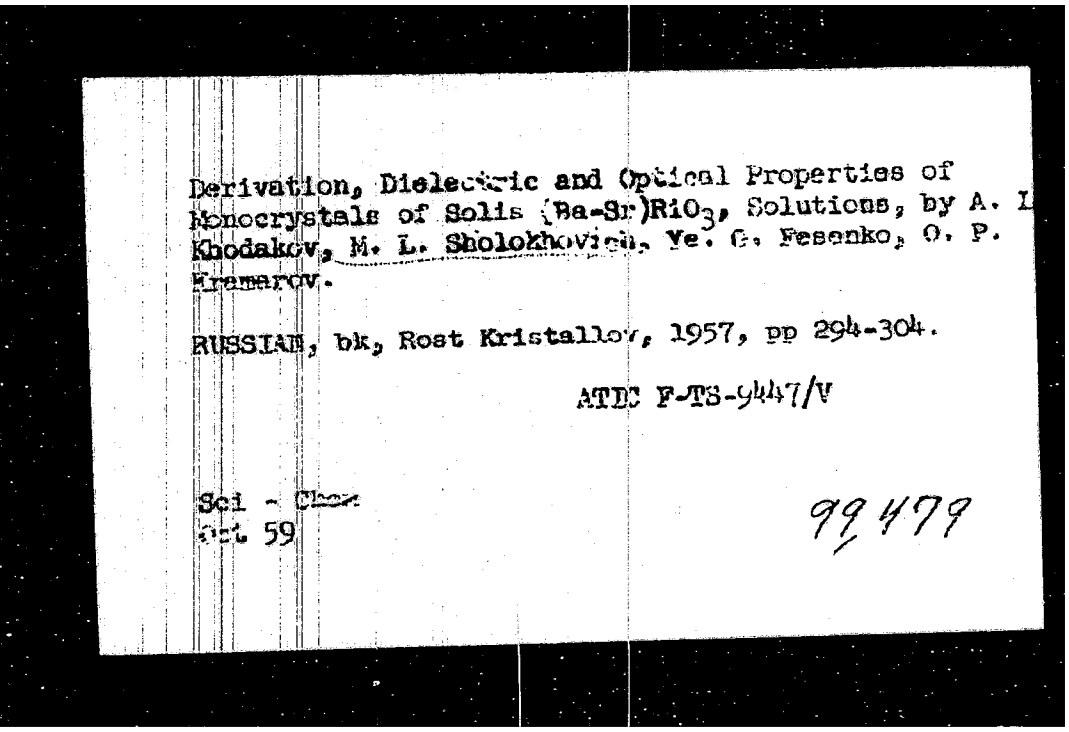

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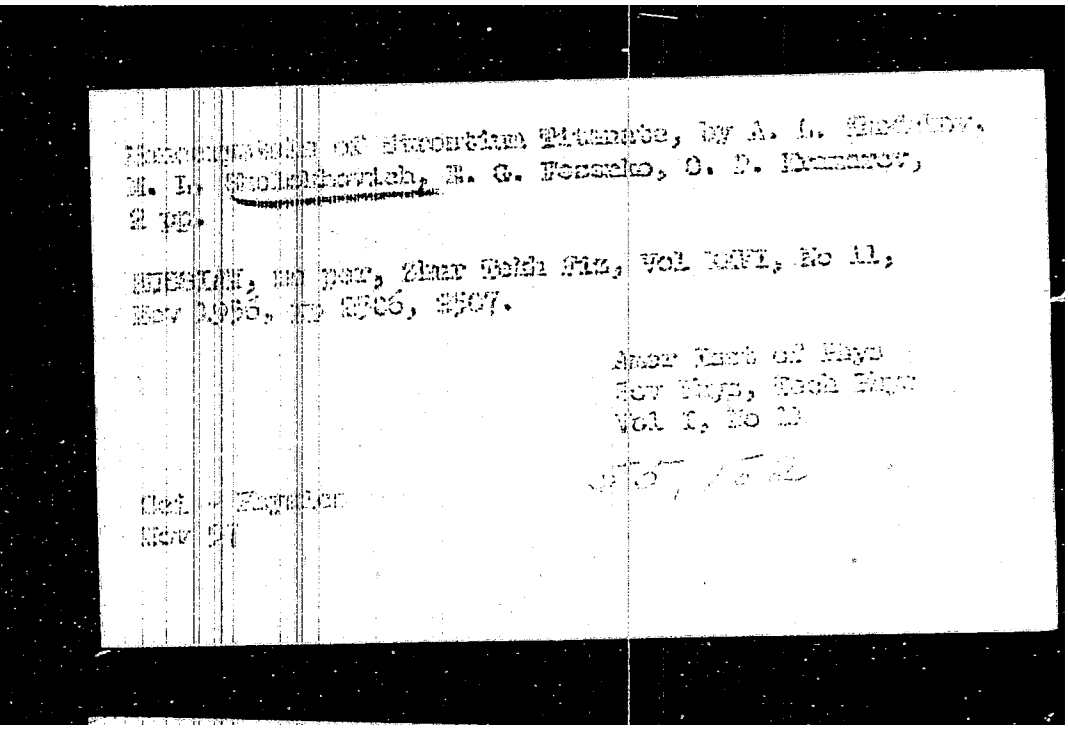

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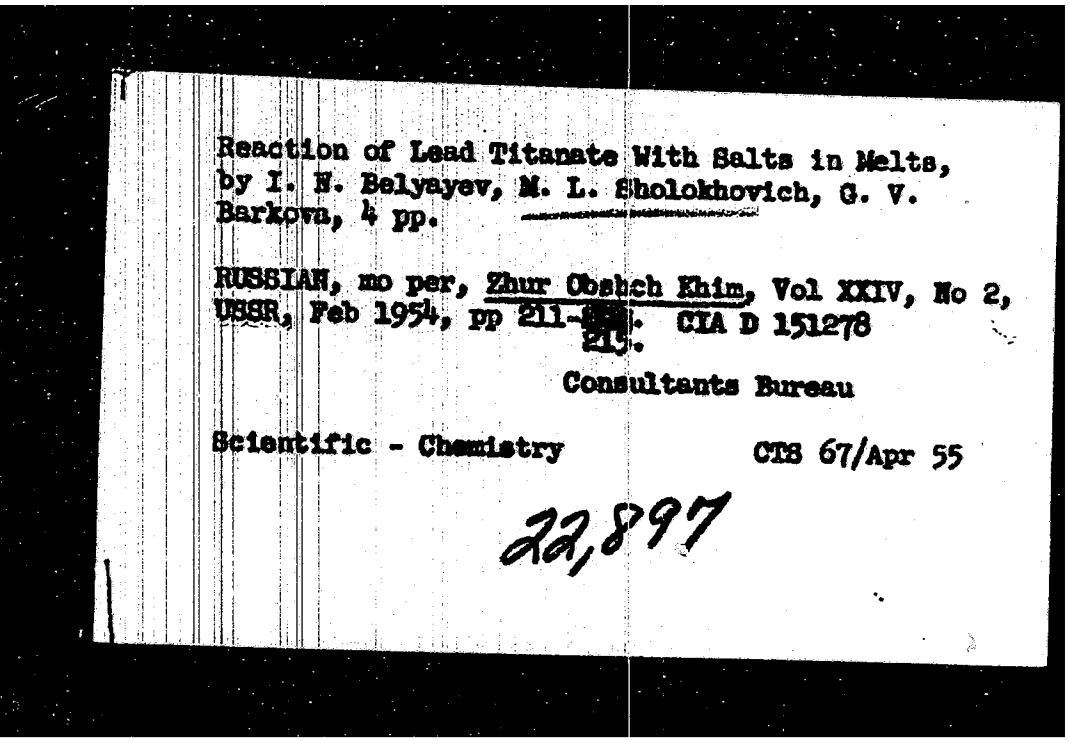

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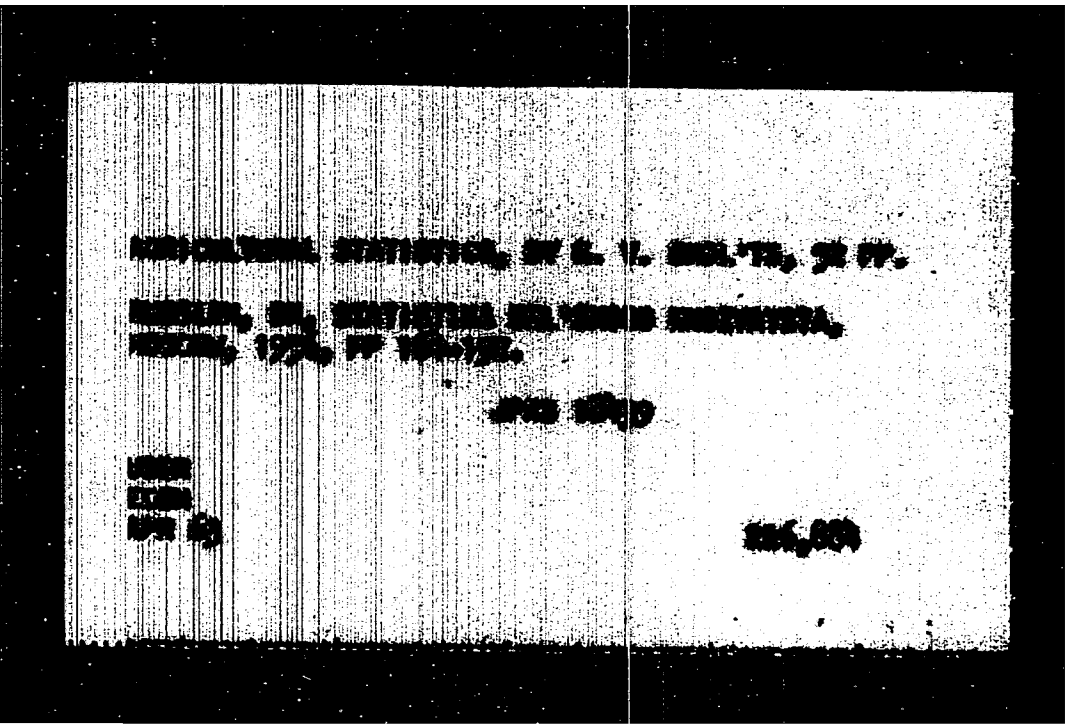

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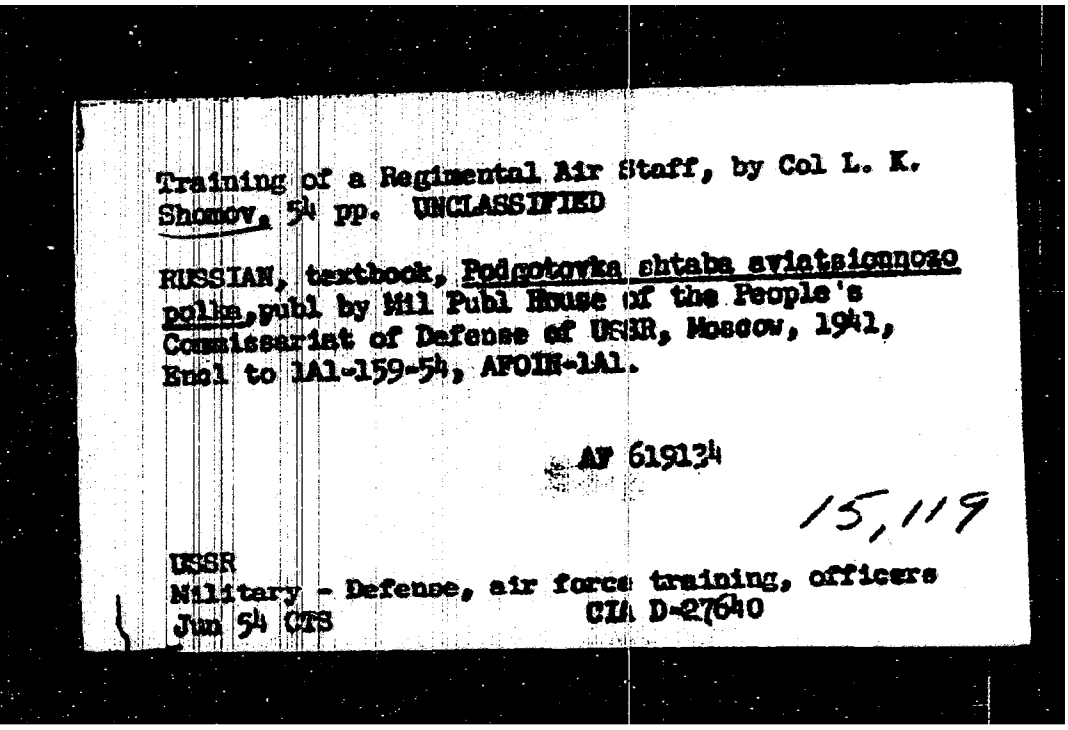

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The dimethyl ester and the dichloride of 2,4- and 2,5-furandicarboxylic acid were treated with α, ω-glycols having 2 to 6 carbon atoms. The ester-exchange catalysts K_2CO_3, CeO_2, and PbO were used at 0.01% by weight of the dimethyl ester. Purified nitrogen was passed through the reaction mixture. Heating of the reactants was conducted at normal pressure at 160°C for 2 hr and at 180°C for 3 hr, and under pressures of 0.05 to 0.5 mm Hg at 180°C for 30 min and at 230°C for 1 hr. Polyesters containing furan rings derived from α, ω-glycols containing an odd number of carbon atoms had lower melting points than those derived from glycols having an even number of carbon
(Chemistry--Organic, TT, v. 5, no. 6) (over)

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1. Esters--Polymerization
2. Furan derivatives--Synthesis

I. Shone, T.
II. Hyeno, K.
III. Hachihama, Y.

Office of Technical Services

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